C1002

IP Camera

Quick Installation Guide

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The information presented in this publication has been carefully prepared and is believed to be correct at the time of publication. However, no responsibility will be assumed for any inaccuracies. Specifications are subject to change without notice.

The information herein is subject to change without notice. This manual is periodically reviewed and revised.

No responsibility is assumed for any errors or omissions in this document.

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Compliance Statement

CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Declaration of Conformity

CE

Shenzhen BST Technology Co.,Ltd.

3F,Weames Technology Building,No. 10 Kefa Road,
Science Park,Nanshan District,Shenzhen,Guangdong,China

Certificate of Compliance

No.: BT0709011370

Submittor : MWR ENGINEERING CONSULTANT CO., LTD.
2F, #34, LANE 119, SEC. 4, ROOSEVELT ROAD, DA-AN DIST. 106,
TAIPEI CITY, TAIWAN

Product : IP CAMERA

M/N : C1002 \ C1202,SW-050120CE

Test Standard :

EN55022:1998+A1:2000+A2:2003
EN55024:1998+A1:2001+A2:2003

The EUT described above has been tested by us with the listed standards and found in compliance with the council EMC directive 2004/108/EC. It is possible to use CE marking to demonstrate the compliance with this EMC Directive.
The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production. It is only valid in connection with the test report number: BTRE0709221171.

CE

Christina
Assistant Manager
Sep.24, 2007

Notes, Cautions, and Warnings

There are two levels of special notation used in this manual. They are:

WARNING: If the actions indicated in a “WARNING” are not complied with, injury or major equipment damage could result. A warning statement typically describes the hazard, its possible effect, and the measures that must be taken to reduce the hazard.

CAUTION: If the action specified in the “CAUTION” is not complied with, damage to your equipment could result.

NOTE: A “NOTE” provides supplementary information, emphasizes a point or procedure, or gives a tip for easier operation.

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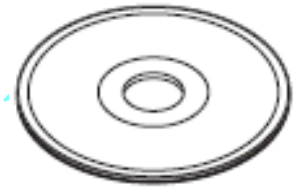
Package Content

1. Indoor Camera **or** **Outdoor Camera**

2. Power Adapter : 5VDC, 1A

Or

3. Utility CD :



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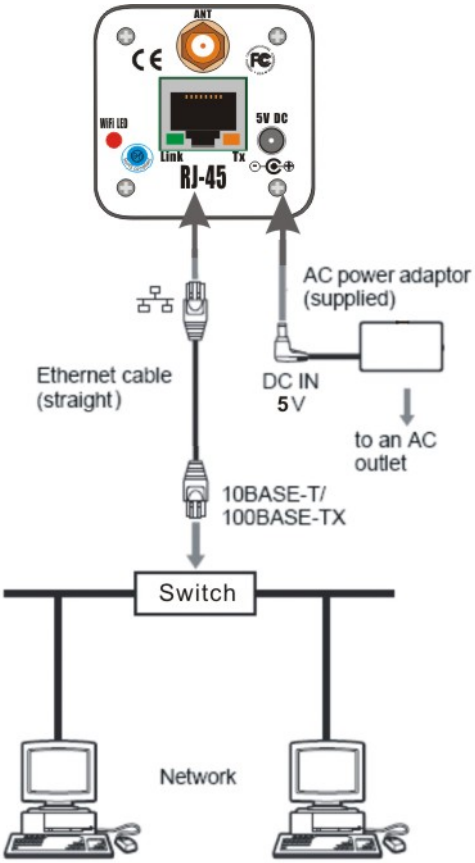
1. Installation

1-1 Connect C1002 to your Local Network



CAUTION:

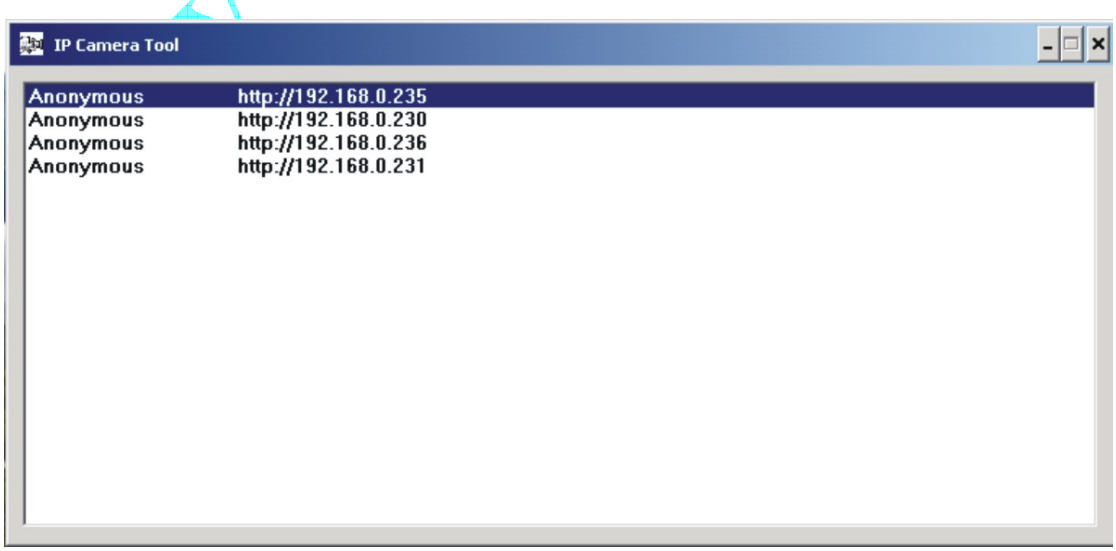
Please use the DC power adapter that is provided with the camera. Connecting camera to other power source will cause permanent damage to the camera.

NOTE:

Please use straight Ethernet cable (CAT. 5e) to connect camera to your home/ office network switch/ hub or a broadband router.

1-1-1 There is DHCP Server in your LAN

The camera will get IP from DHCP Server (Factory Setting).
Please use "IP Camera Tool" in Utility CD to search and link to cameras.



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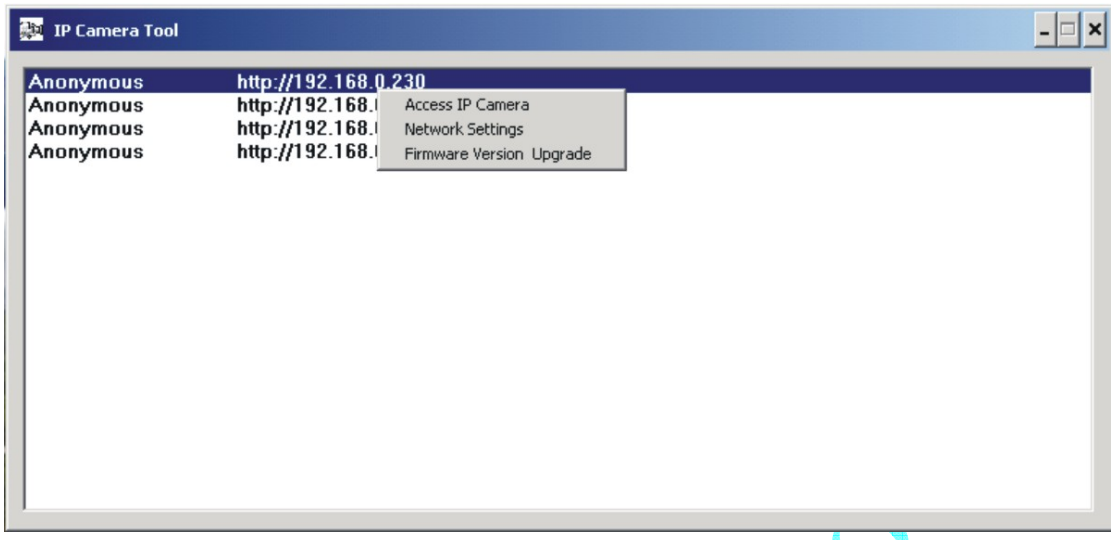
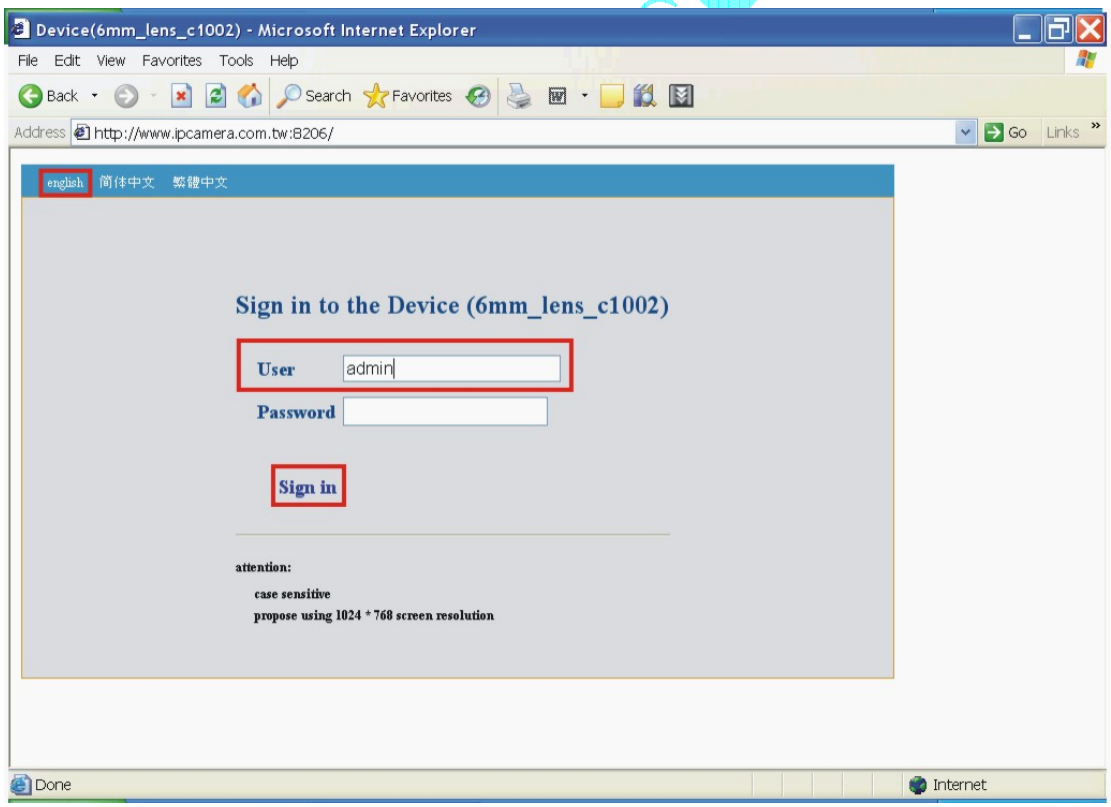
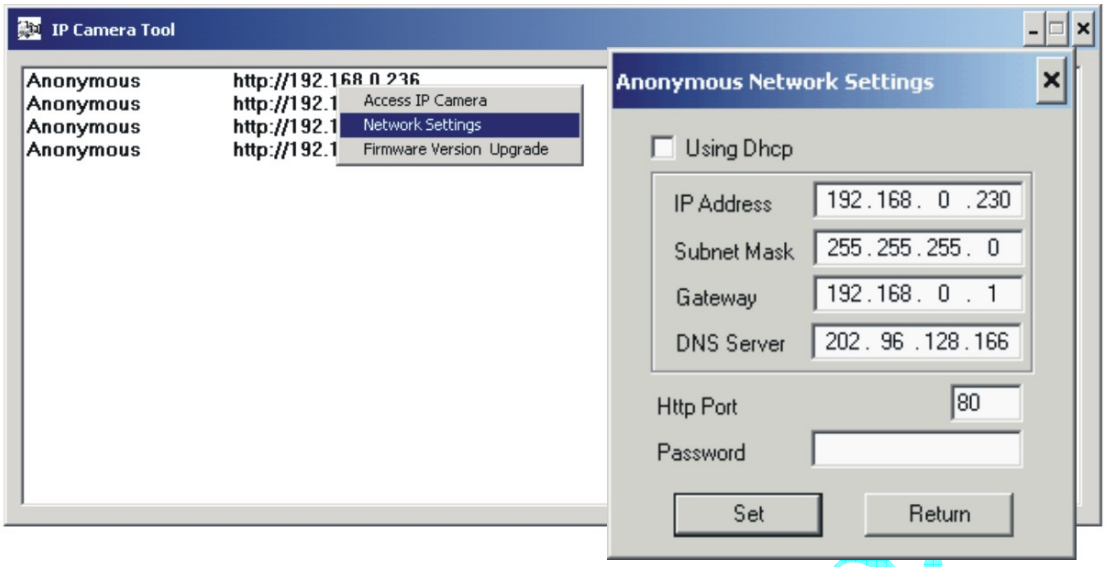
“IP Camera Tool” ” in Utility CD will find all the Clairvoyant 1002 IP cameras in your local network.



“Double Clicks” or ”Right Click” on the camera you want to connect, choose “Access IP Camera” will bring up IE browser with camera login screen.



Note:
You can choose to modify the camera to fixed IP by Choosing “Network Settings”



Warning:
Please consult your office network administrator to get a free IP for your IP Camera, duplicated IP address will cause undesired problems.

Normally you will not need to change the network settings automatically obtained from DHCP server.

Please don't check the "Using Dhcp" in order to use fixed IP address and network settings.

There is no Password set by factory default, please leave the Password field blank as it is.

CAUTION:
Please always write down the password and keep password in safe place. Please kindly notice, if you forget password you set, you will have to return the camera to manufacturer for recovery, there is no way to reset password of your camera.

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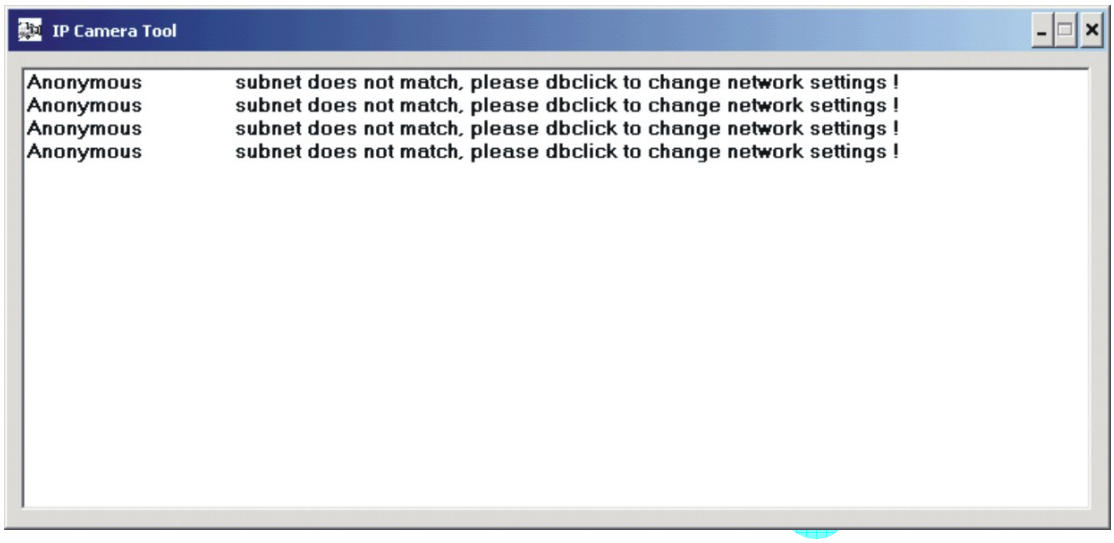
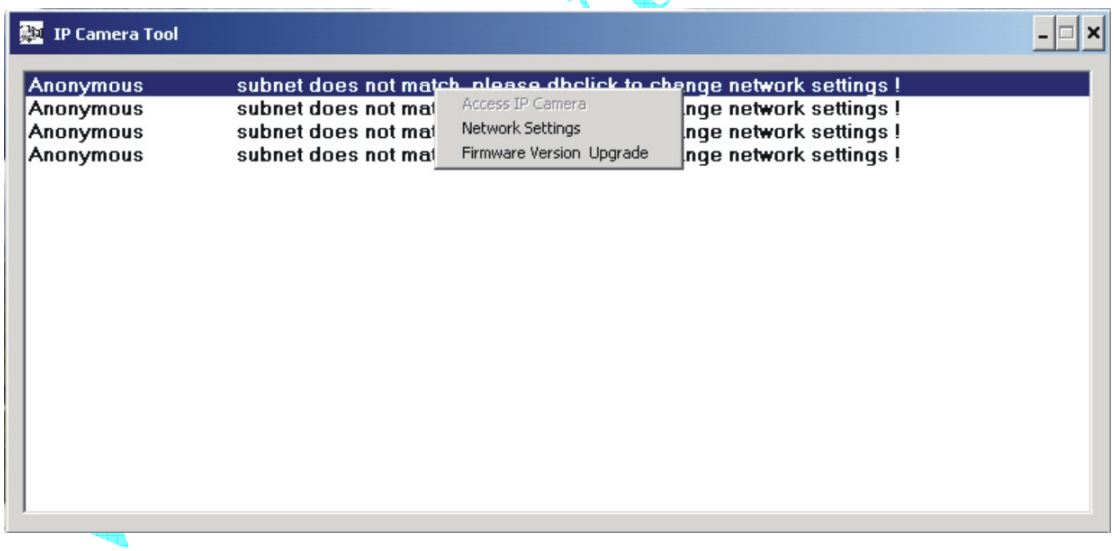
1-1-2 There is not DHCP Server in your LAN

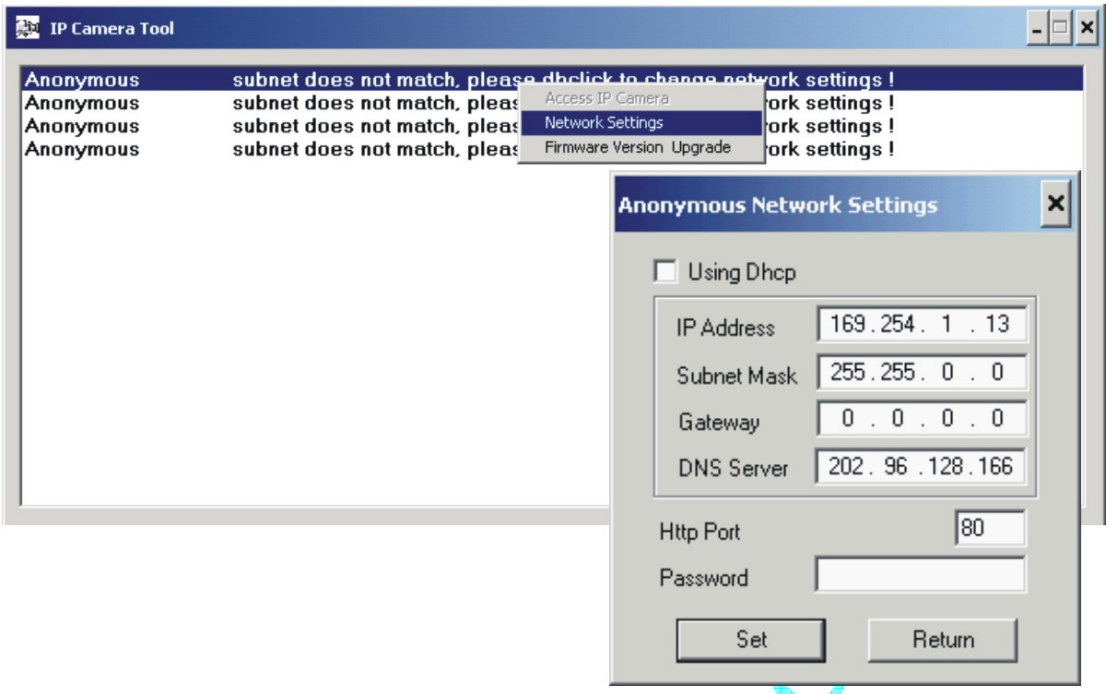
The camera will not be able to get IP from DHCP Server (Factory Setting). Please use "IP Camera Tool" in Utility CD to search and link to cameras.


IP Camera Tool
Anonymous subnet does not match, please dbclick to change network settings !
Anonymous subnet does not match, please dbclick to change network settings !
Anonymous subnet does not match, please dbclick to change network settings !
Anonymous subnet does not match, please dbclick to change network settings !

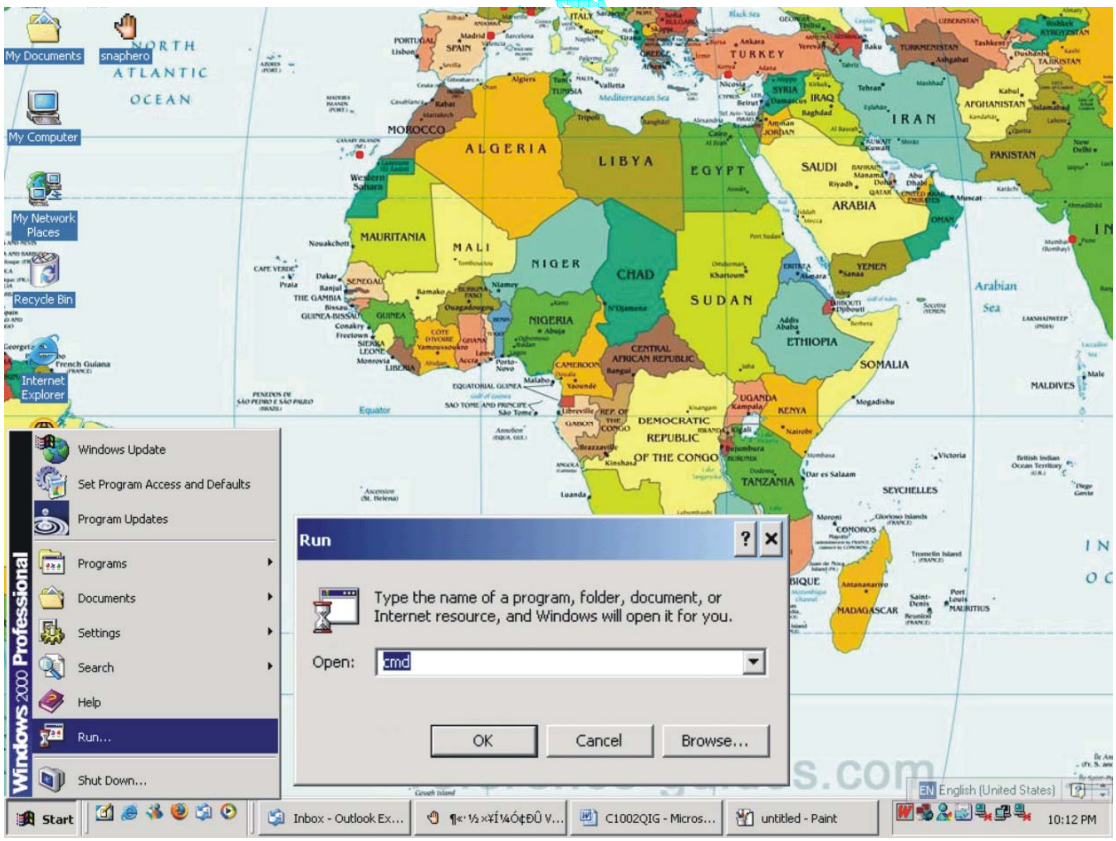
"IP Camera Tool" " in Utility CD will find all the Clairvoyant 1002 IP cameras in your local network.


IP Camera Tool
Anonymous subnet does not match, please dbclick to change network settings !
Anonymous subnet does not mat nge network settings !
Anonymous subnet does not mat nge network settings !
Anonymous subnet does not mat nge network settings !
Access IP Camera
Network Settings
Firmware Version Upgrade

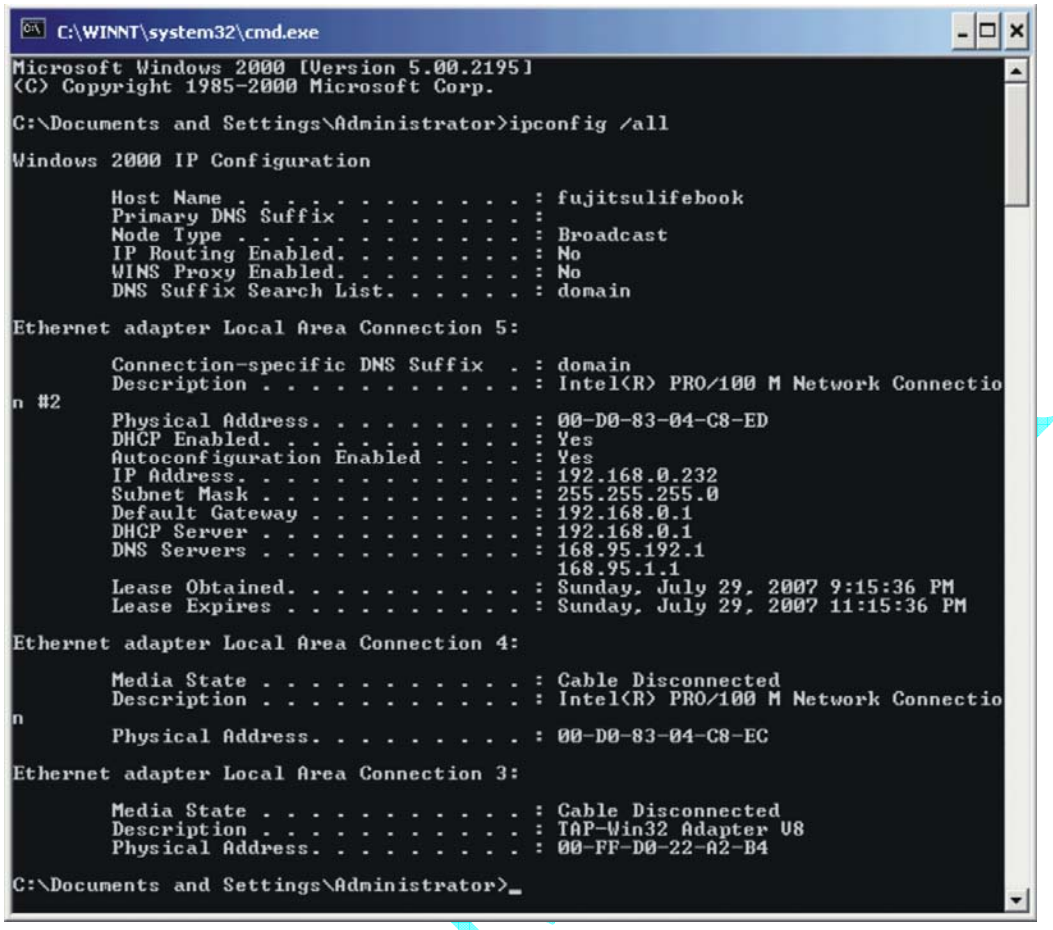
The "Access IP Camera" will be in gray color, you will not able to link to your camera at this step. You must choose "Network Settings" to set the camera to fixed IP.
Please modify the "IP Address" to the same subnet of your computer. Normally the IP should start with "192.168.xxx.xxx"


IP Camera Tool
Anonymous subnet does not match, please dbclick to change network settings !
Anonymous subnet does not match, plea ork settings !
Anonymous subnet does not match, plea ork settings !
Anonymous subnet does not match, plea ork settings !
Access IP Camera
Network Settings
Firmware Version Upgrade
Anonymous Network Settings
Using Dhcp
IP Address 169 . 254 . 1 . 13
Subnet Mask 255 . 255 . 0 . 0
Gateway 0 . 0 . 0 . 0
DNS Server 202 . 96 . 128 . 166
Http Port 80
Password
Set
Return

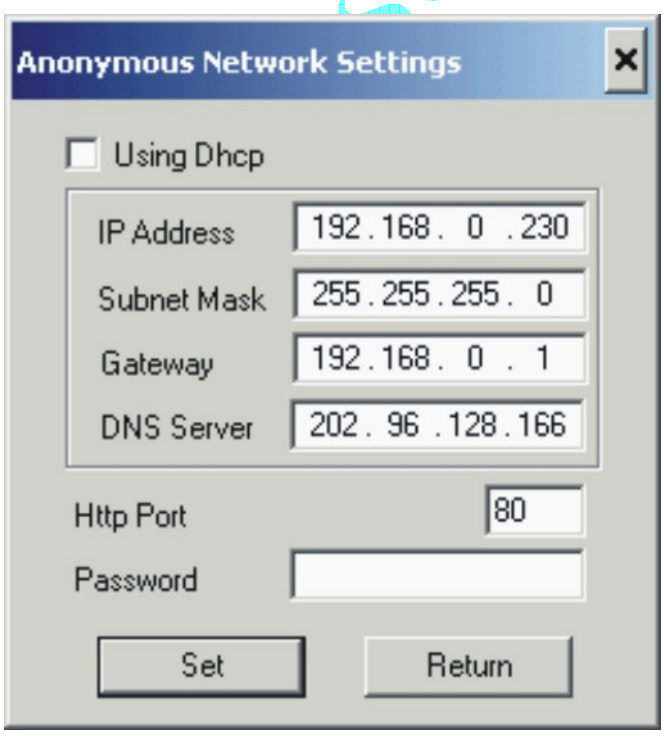
If you are not sure of your computer IP address, please go to DOS mode by : "START" => "RUN" => Open "CMD"



Type “ipconfig /all” at command prompt,


C:\WINNT\system32\cmd.exe
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.
C:\Documents and Settings\Administrator>ipconfig /all
Windows 2000 IP Configuration
Host Name . . . . . : fujitsulifebook
Primary DNS Suffix . . . . . :
Node Type . . . . . : Broadcast
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : domain
Ethernet adapter Local Area Connection 5:
Connection-specific DNS Suffix . : domain
Description . . . . . : Intel(R) PRO/100 M Network Connectio
n #2
Physical Address. . . . . : 00-D0-83-04-C8-ED
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
IP Address. . . . . : 192.168.0.232
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.0.1
DHCP Server . . . . . : 192.168.0.1
DNS Servers . . . . . : 168.95.192.1
168.95.1.1
Lease Obtained. . . . . : Sunday, July 29, 2007 9:15:36 PM
Lease Expires . . . . . : Sunday, July 29, 2007 11:15:36 PM
Ethernet adapter Local Area Connection 4:
Media State . . . . . : Cable Disconnected
Description . . . . . : Intel(R) PRO/100 M Network Connectio
n
Physical Address. . . . . : 00-D0-83-04-C8-EC
Ethernet adapter Local Area Connection 3:
Media State . . . . . : Cable Disconnected
Description . . . . . : TAP-Win32 Adapter V8
Physical Address. . . . . : 00-FF-D0-22-A2-B4
C:\Documents and Settings\Administrator>

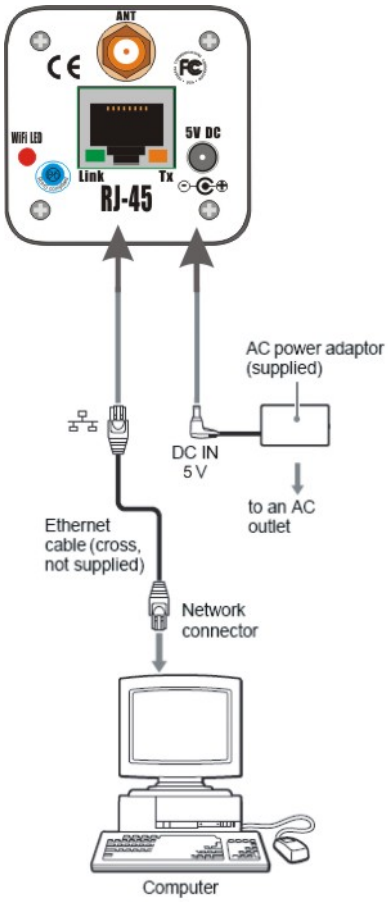
You will be able to find you computer network settings.



After input correct network settings, press “Set”

Follow the procedures described in 1-1-1 There is DHCP Server in your LAN

1-2 Connect C1002 to your computer directly



Because there is no DHCP Server available, you have to setup the network settings manually.

Please follow the procedures in previous sections (1-1-2) to link to your camera.

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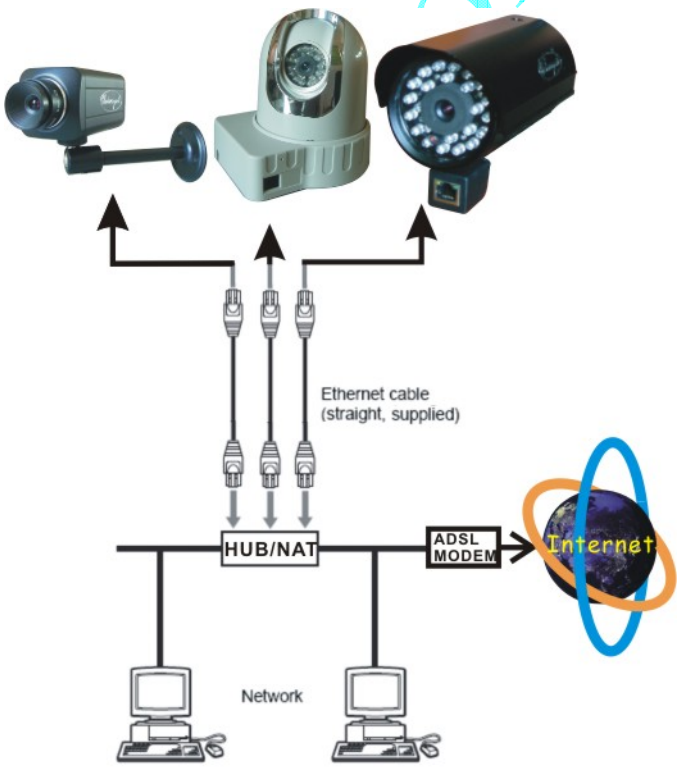
1-3 Connect C1002 to Internet



Connect IP Camera to your broadband router or NAT gateway.

Do the following setup:

1. **Setup Virtual Server/ forward port on your router to camera,**
2. **or set router DMZ to your IP Camera IP,**
3. **Obtain DDNS service from DynDNS if you don't have fixed public IP,**
4. **Setup DDNS account information to your camera**

5. Access camera URL through Internet.
Example:
http://your_camera.dyndns.org:port

Please reference more details of Router & DynDNS setup on Reference User's Manual.

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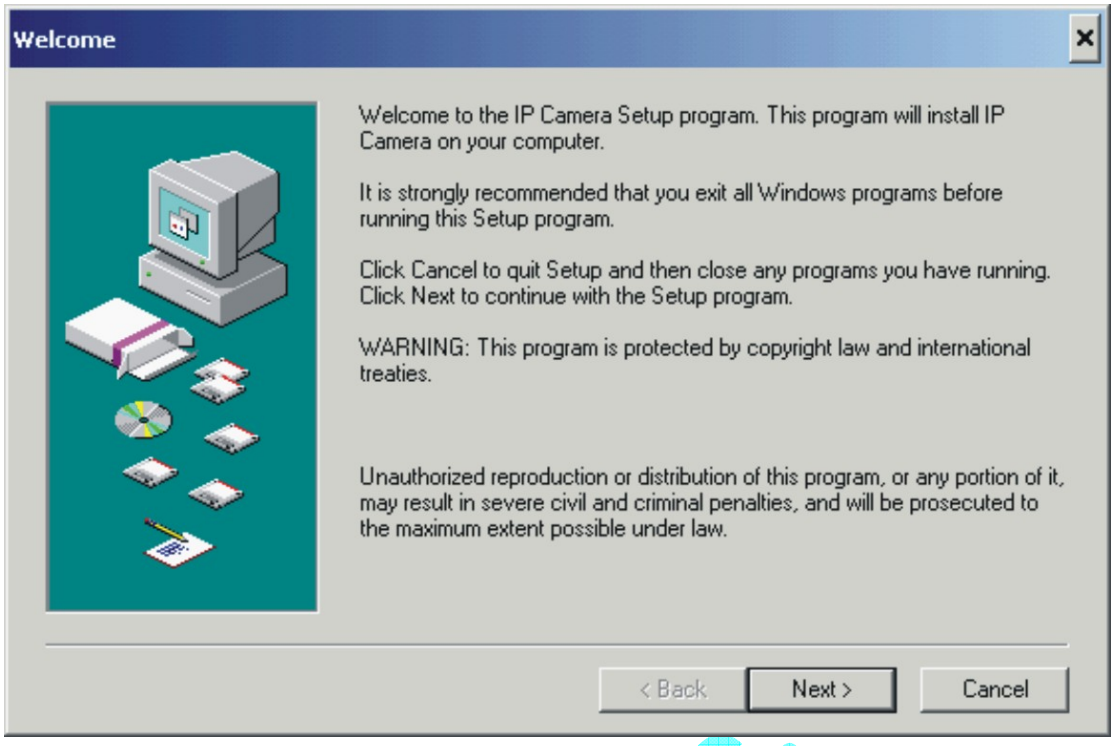
2. Software Installation

2.1 Utility CD.

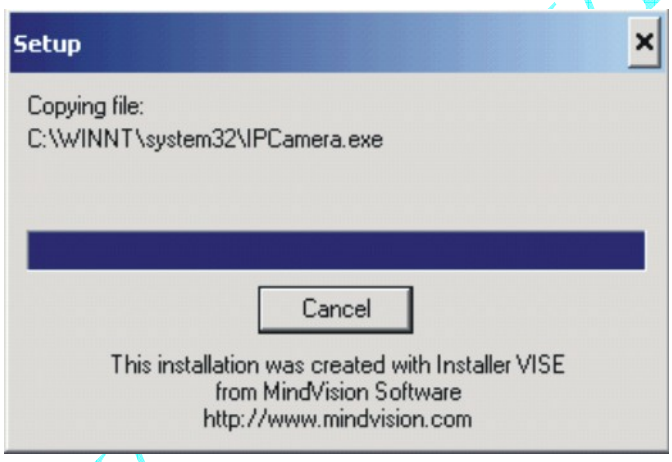
Please insert the "Utility CD" into your CD-ROM drive, auto-run program will start and below screen will guide you through installation.

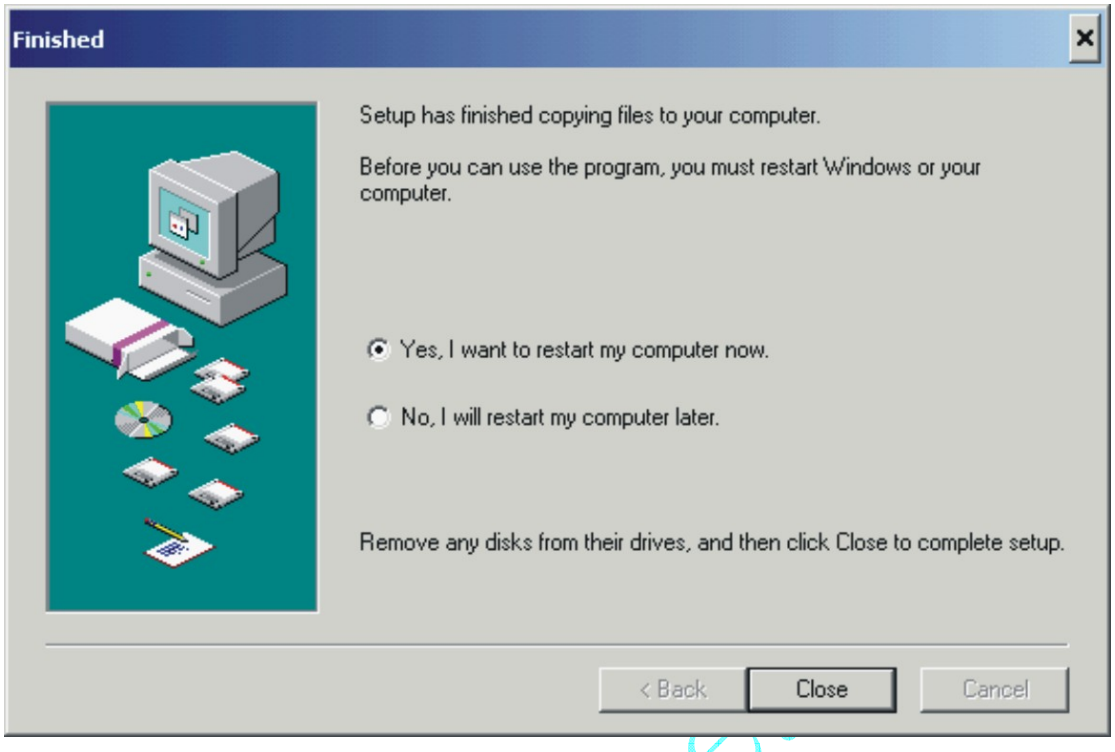
To install software and ActiveX plug-in

Please click on the "Install 1st" tab to install software and ActiveX plug-in.


Welcome
Welcome to the IP Camera Setup program. This program will install IP Camera on your computer.
It is strongly recommended that you exit all Windows programs before running this Setup program.
Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
< Back
Next >
Cancel

Click on "Next",

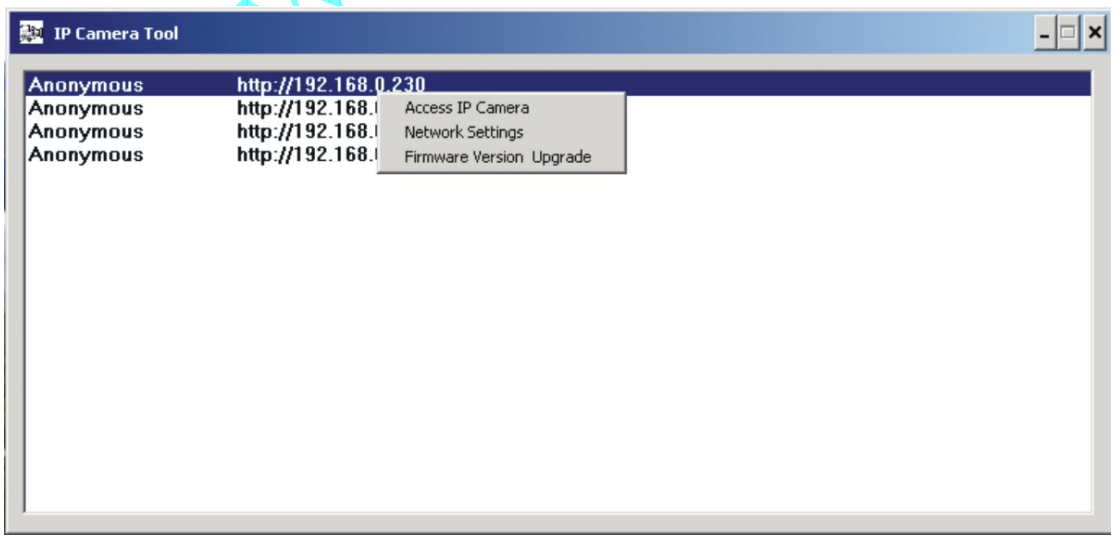



Finished
Setup has finished copying files to your computer.
Before you can use the program, you must restart Windows or your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Close to complete setup.
< Back
Close
Cancel

Click on "Close",

The IP Camera search utility software icon will display on your desktop.

Click on the "IP Camera Tool" tab to search Clairvoyant 1002 IP cameras in your local network.



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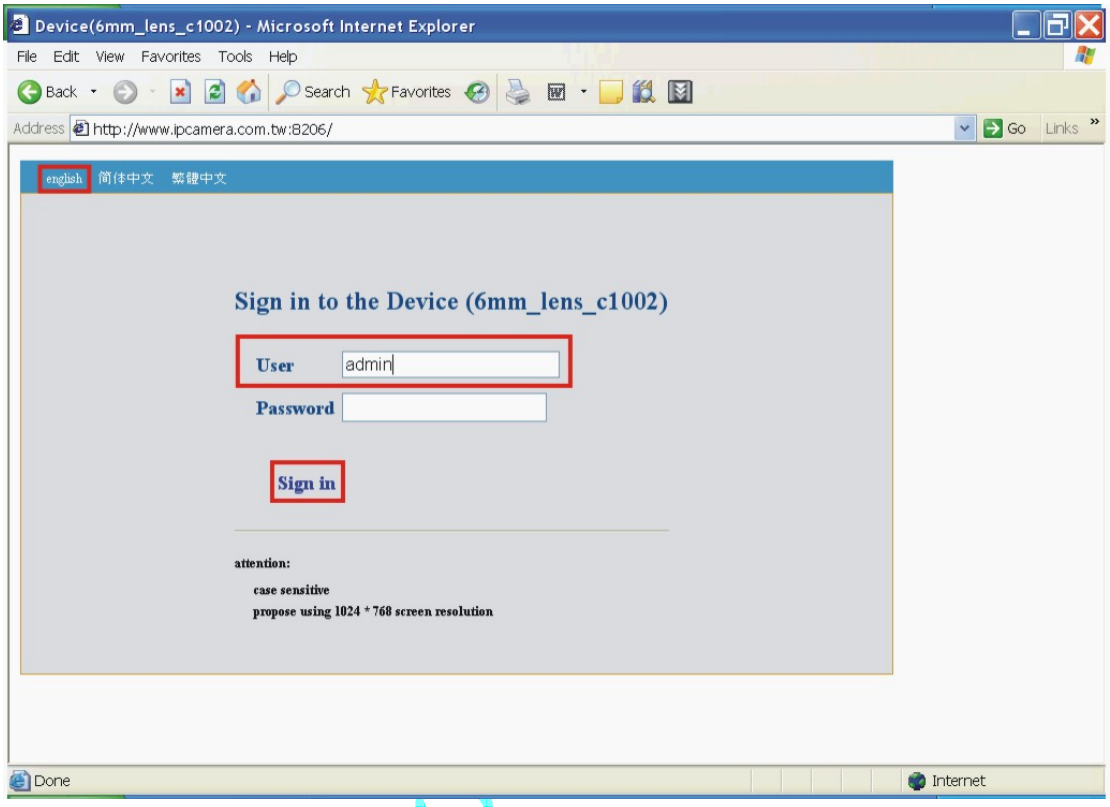
2.2 Login & Access Camera video

"Double Clicks" or "Right Click" on the camera you want to connect, choose "Access IP Camera" will bring up IE browser with camera login screen.



Type "admin" in User field, there is no admin Password set by factory default; please leave the Password field blank as it is. Click on "Sign in" tab

Note:

Please notice it's lower case characters admin, the User and Password are capital sensitive.

On the top left corner, select language (English or Chinese).

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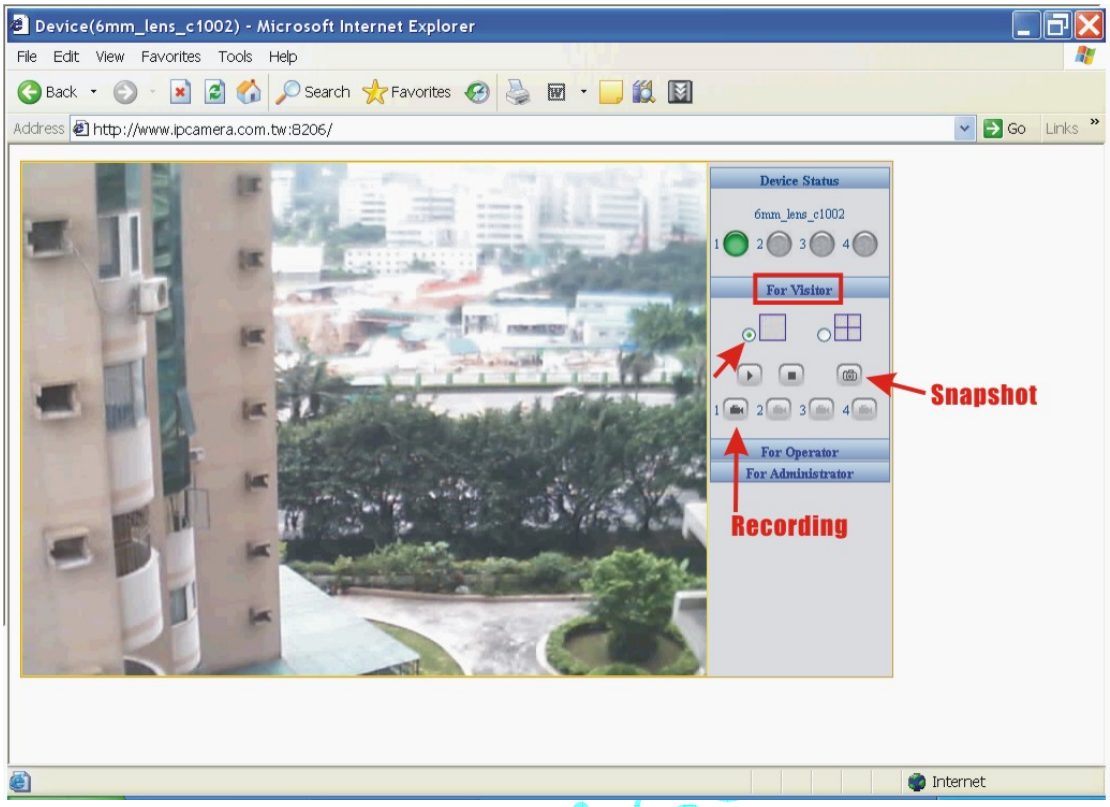
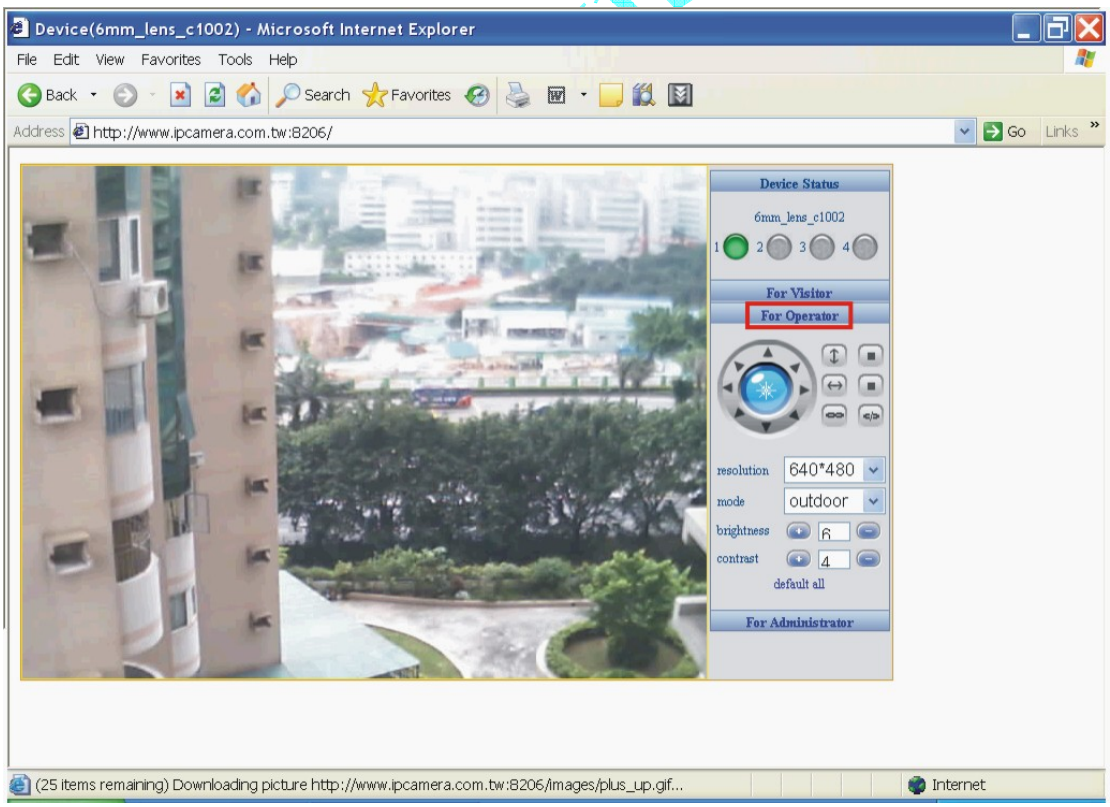
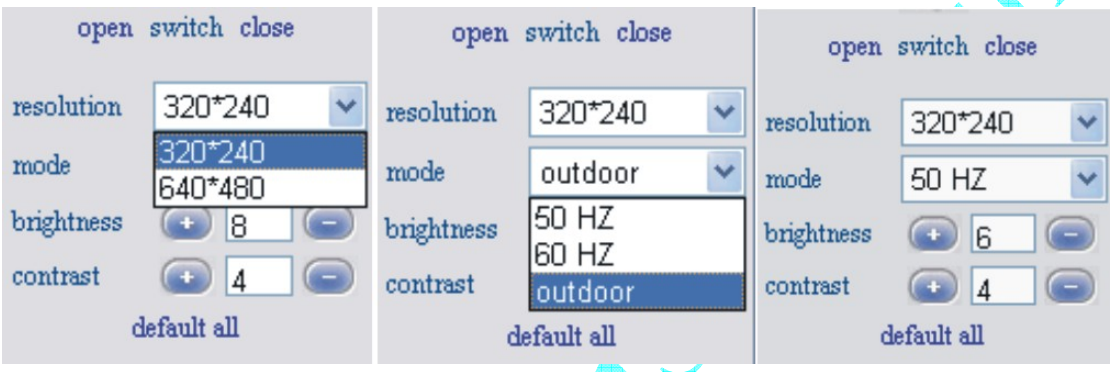

Device(6mm_lens_c1002) - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://www.ipcamera.com.tw:8206/
Go Links
Device Status
6mm_lens_c1002
1 2 3 4
For Visitor
For Operator
For Administrator
Snapshot
Recording
Internet


Device(6mm_lens_c1002) - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://www.ipcamera.com.tw:8206/
Go Links
Device Status
6mm_lens_c1002
1 2 3 4
For Visitor
For Operator
resolution 640*480
mode outdoor
brightness 6
contrast 4
default all
For Administrator
(25 items remaining) Downloading picture http://www.ipcamera.com.tw:8206/images/plus_up.gif...
Internet

Note:

1. **Clairvoyant 1002 IP camera will required a Microsoft Windows based PC with Media Player 7.0 or later installed.**
2. **If the video don't start, please reference the "ActiveX_Security_Setup" in Reference Manual.**
3. **If you see only white screen and your camera is in outdoor or expose to strong light, please change the "Mode" to "Outdoor".**
4. **If you see flickers on video and your camera is installed indoor, please change the "Mode" to "50Hz" or "60Hz" according to the electricity of your country.**

Description of Monitoring Page



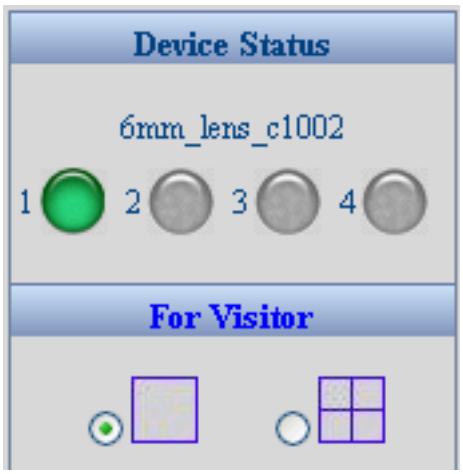
Resolution : 320x240（QVGA）/ 640x480（VGA）

Working environment Mode : indoor (50Hz/ 60Hz) / outdoor

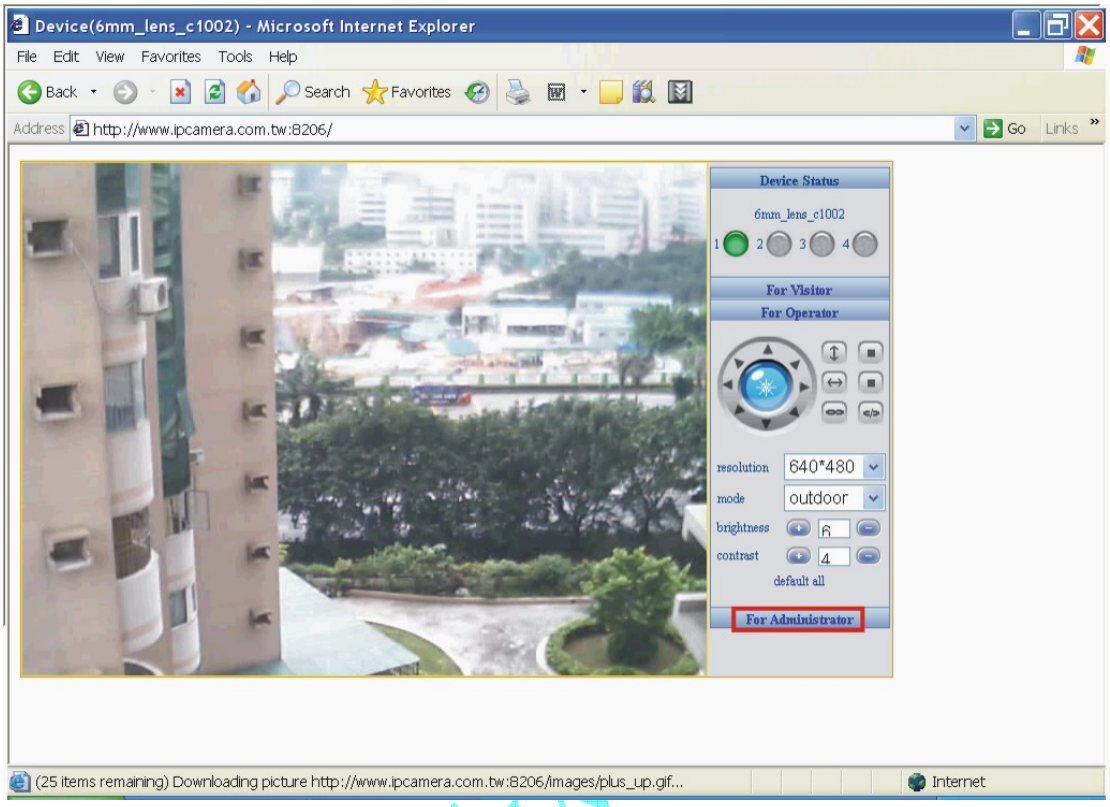
Photo parameter modulation: Brightness, Contrast

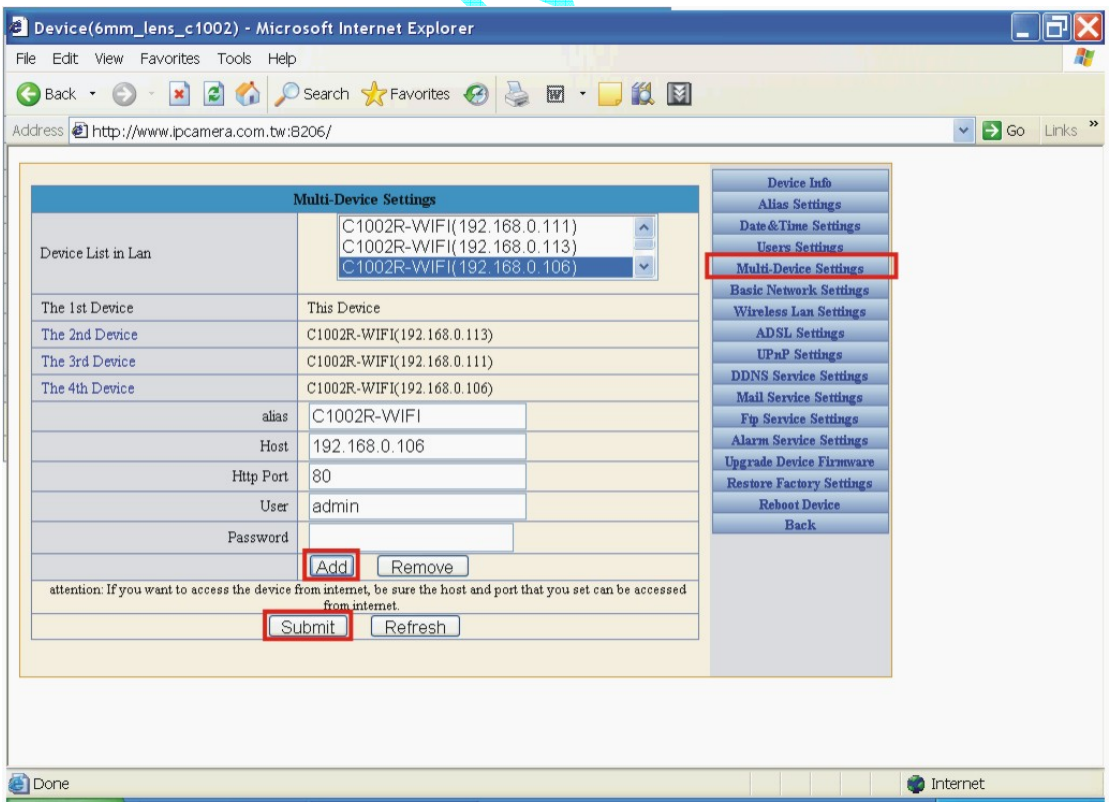
Scout menu : "Snapshot" and "Record" Scout window setting :

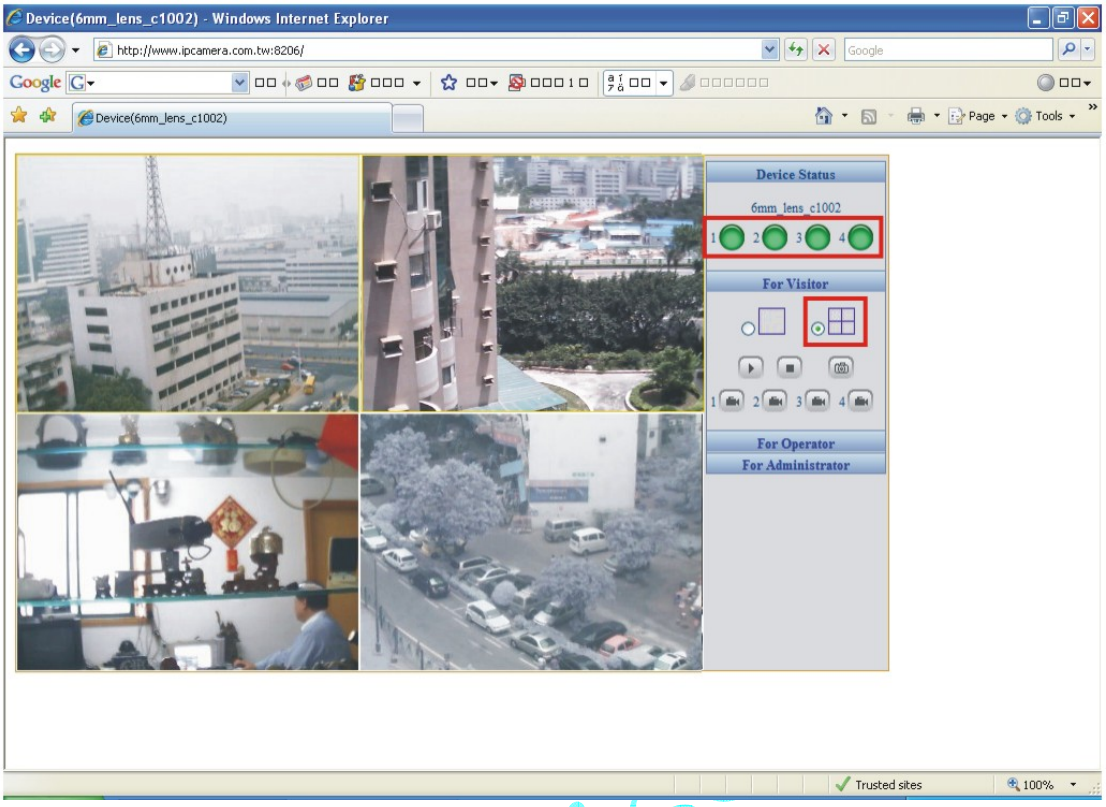
1. **May see only current window**
2. **May increase 3 IP cameras, real-time view video in four windows as below**



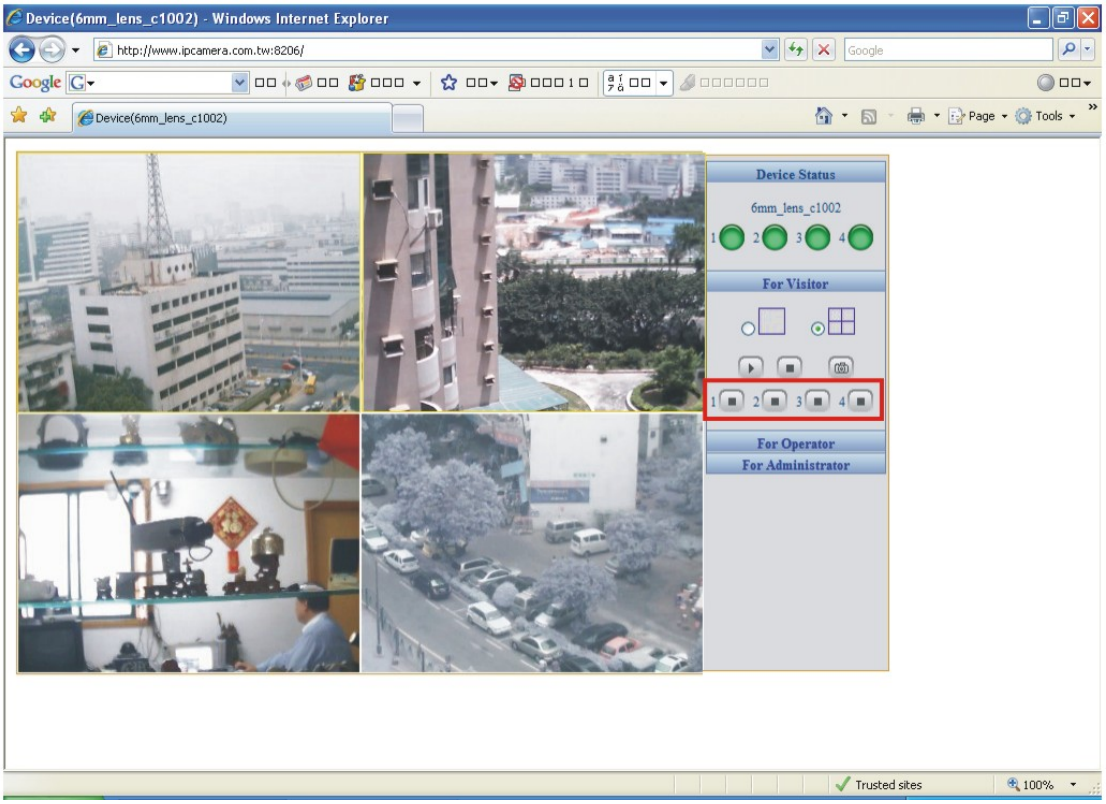
To view four cameras simultaneously, go to Administrator setup page, Select "Multi-Device Setting", as illustrated as followed.



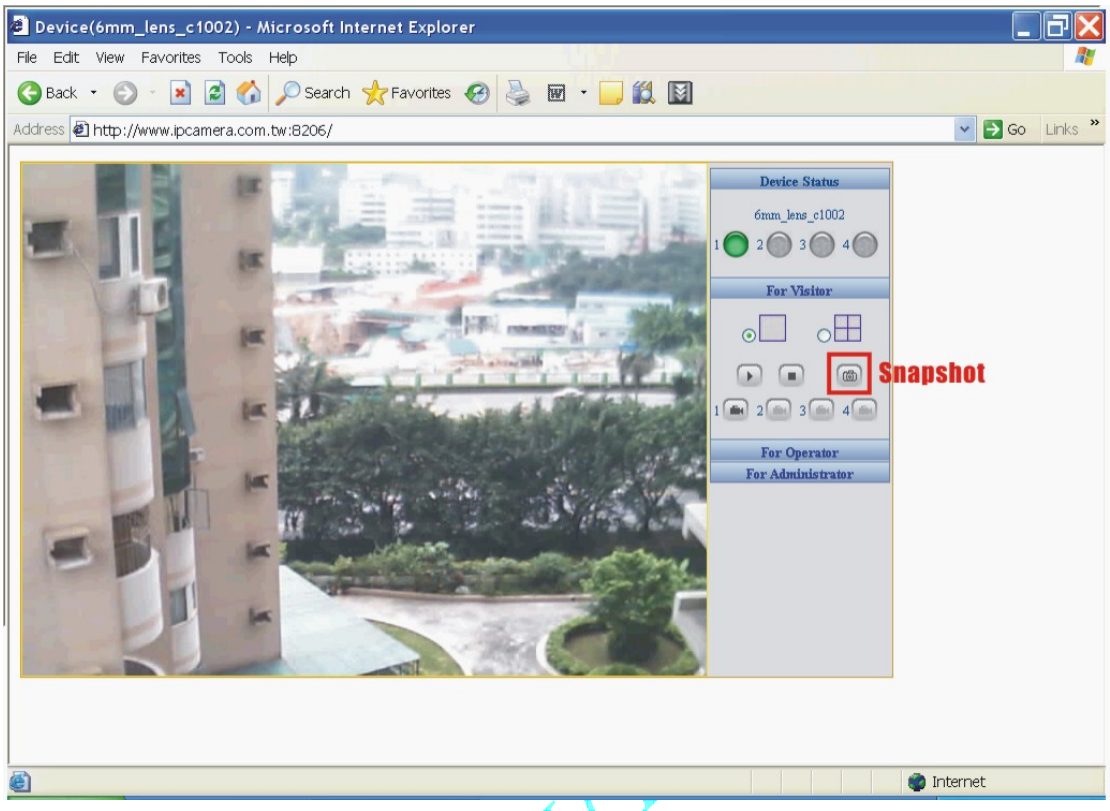




Click on channels to start recording:



To take snapshot of present scene on screen, click on the "snapshot" button:

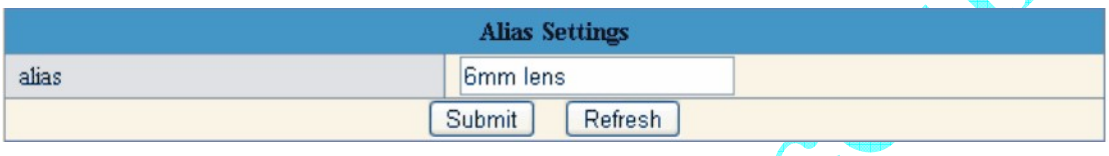


2.3 Administrator setup page Page

2.3.1 Device Info

Indicates Camera ID & Firmware version.

2.3.2 Alias Settings



Camera Alias : Input the camera name for you to recognize.

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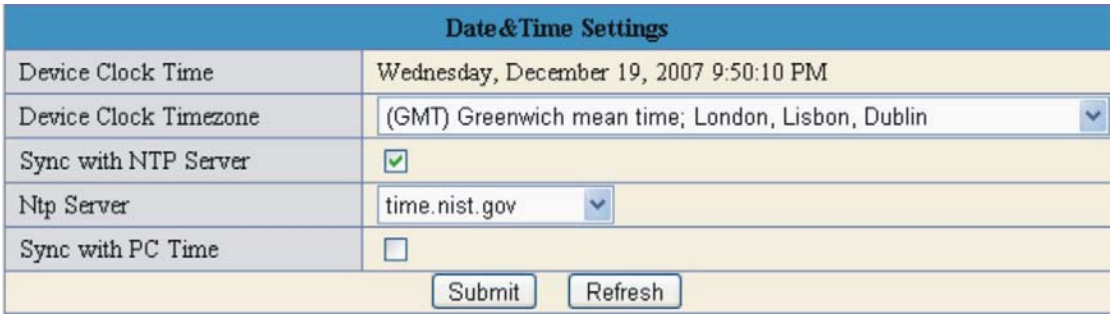
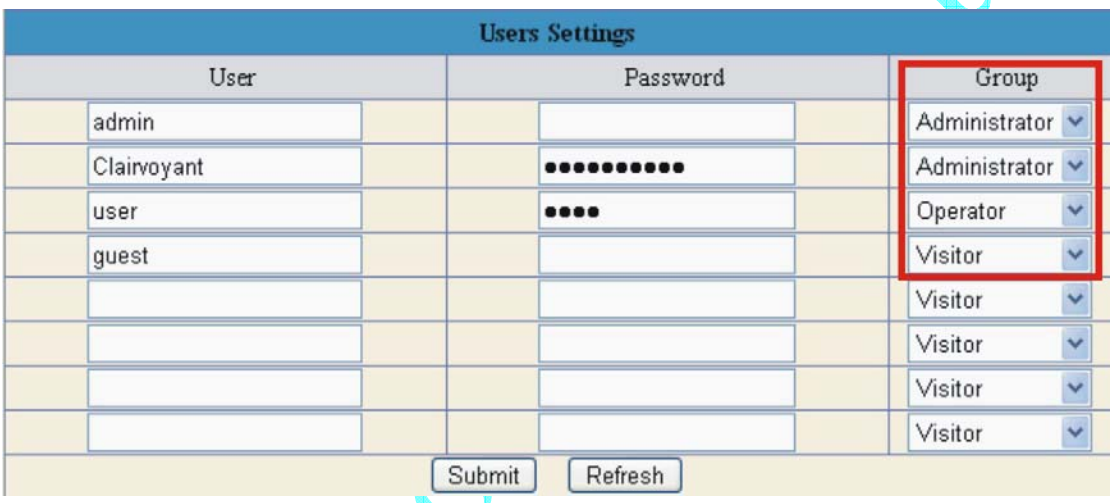
2.3.3 Date & Time Settings



2.3.4 Users Settings



admin Password and Confirm Password: password used to login the IP Camera (Default is blank)

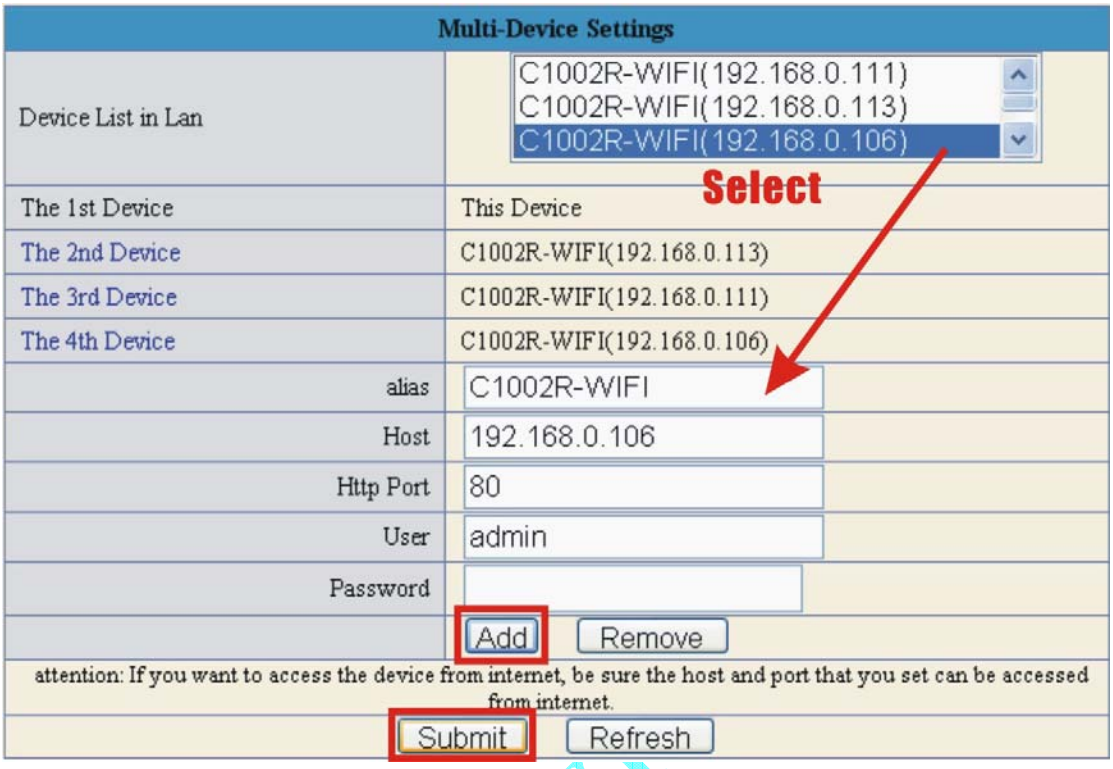
Administrator: Can change settings
Operator: Can select Resolution, Indoor/ Outdoor, PTZ (PTZ model only)
Visitor: Can only view.

CAUTION:

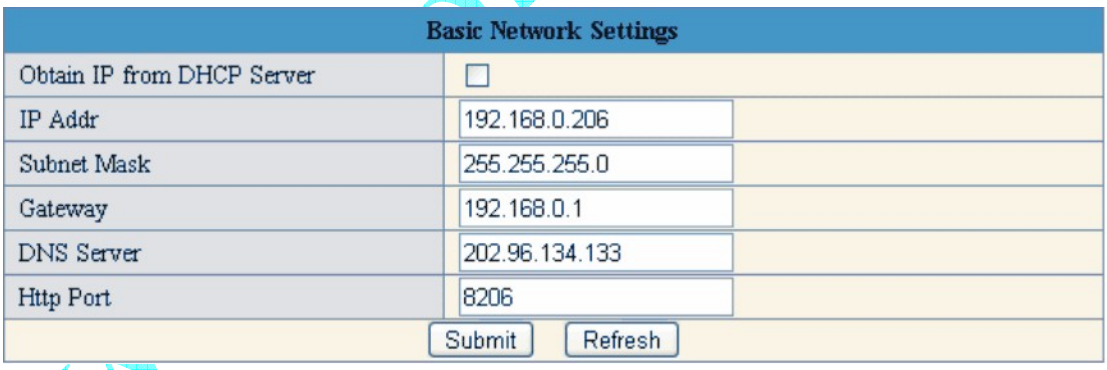
Please always write down the password and keep password in safe place. Please kindly notice, if you forget password you set, you will have to return the camera to manufacturer for recovery, there is no way to reset password of your camera.

2.3.5 Multi-Device Settings

Add 3 more cameras from "**Device List In LAN**"



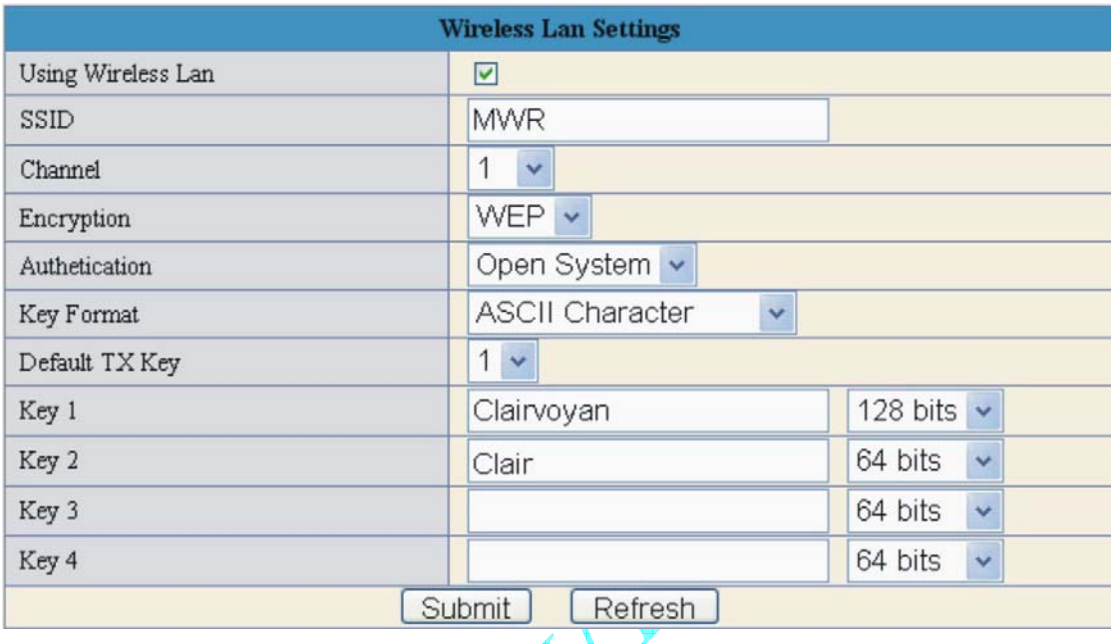
2.3.6 Basic Networking Settings



Factory default the "Using DCHP" is chosen, the IP Camera will try to get IP address automatically from DHCP SERVER of your network.
You can also configure the IP address manually.
IP: enter the IP address assigned.
Mask: Enter the subnet mask. The default is 255.255.0.0
Gateway: Enter IP gateway.
DNS: Enter DNS IP address provided by your ISP (Internet service provider).
Http Port: Enter the input port number, default as 80.
If IP camera connects with ADSL directly chose Using ADSL Dialup, enter ADSL dialup user and password

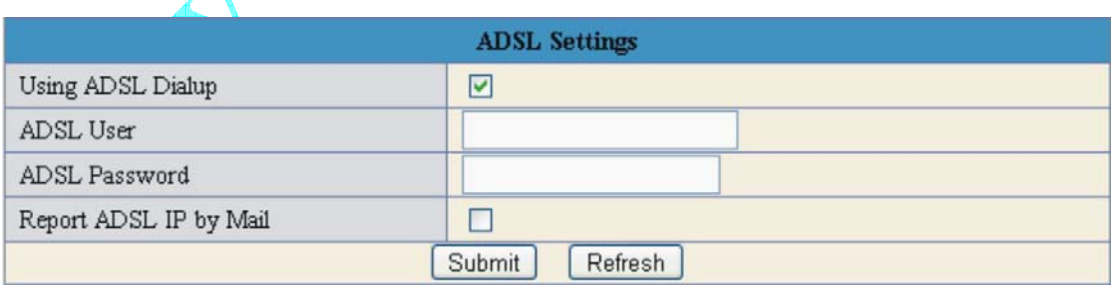
Note:
After "Submit" new network settings, camera will reboot to adopt new settings automatically.

2.3.7 Wireless LAN Settings



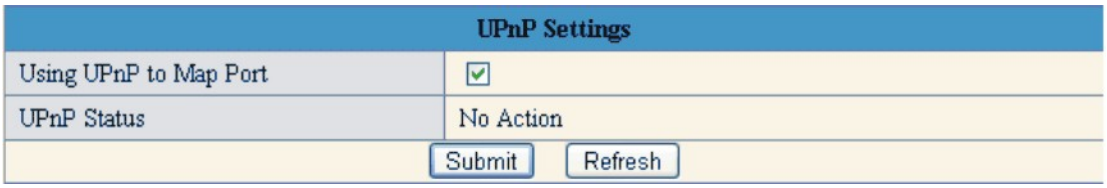
Using Wi-Fi Lan: Only for wireless IP Camera, you must set correct **SSID** and **WEP Key** (IF your Wi-Fi AP enables WEP encryption)
Set correct **SSID** and **WEP Key** according to your Wi-Fi AP.
If your Wi-Fi AP enables **WEP** encryption (64 bits/ 128 bits), input **WEP key** in **HEX or ASCII** format.

2.3.8 ADSL Settings

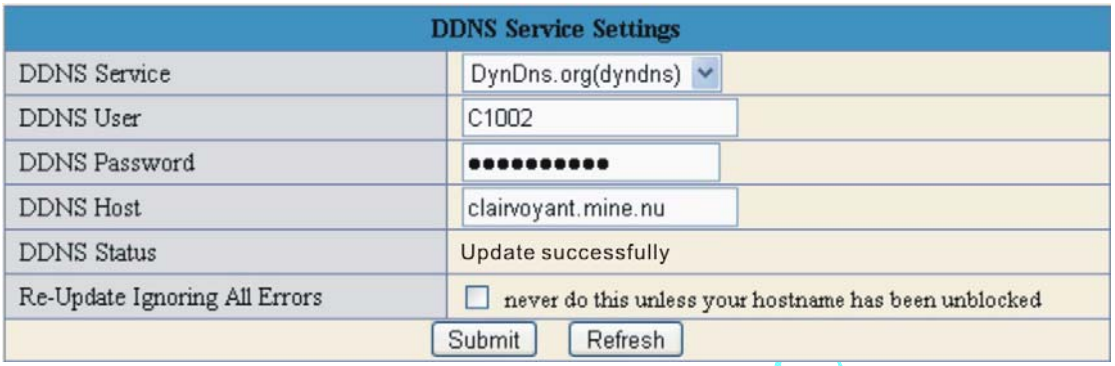


Connect camera LAN port directly to ADSL modem.
Please request User account and Password from your ADSL service provider.
If the IP is not fixed (dynamic), Click "Report ADSL IP by Mail" will result email notification every time the ADSL IP is changed.

2.3.9 UPnP Settings



2.3.10 DDNS Service Setting



DDNS Setting: Clairvoyant 1002 IP camera supports protocols from two DDNS providers:

1. Oray.net
2. Dyndns.org

Domain Name: the second-level name you apply for and acquire at Oray.net or Dyndns.org, please read more details in "**Reference User's manual**"

User and Password: the user name and password when applying for the DDNS service.

DDNS Status:

1. "**No Action**" no DDNS settings set, no action taken.
2. "**Errors in network Communication**": can't access DDNS server due to Network errors (blocked by ISP) or wrong DNS, Gateway settings.
3. "**Update successfully**" : Successfully updated the DDNS server database.

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2.3.11 Mail Service Settings

Mail Service Settings	
Sender	lucy@mwr.com.tw
Receiver 1	sales@mwr.com.tw
Receiver 2	neil@mwr.com.tw
Receiver 3	william@mwr.com.tw
Receiver 4	mwr.tw@msa.hinet.net
SMTP Server	mail.mwr.com.tw
Need Authentication	☑
SMTP User	lucy
SMTP Password	••••••••
Submit Refresh	

Users can assign the e-mail boxes to receive and send mails.
The e-mail box is used for receiving the snapshots sent after alarm and the public wan IP address after successful dial-up.

Note:

Remember to input your **SMTP account and password** if your SMTP server requires authentication.

Please ask your ISP for **SMTP account and password, or seek help from MIS department of your company.**

Make sure the **DNS Server** and **Gateway** settings are correct if you don't choose **DHCP** and setup "**Networking Settings**" manually.

2.3.12 FTP Service Settings

Note:

The Upload folder must be created before successful files upload.

Remember to add "/" before folder name

Don't upload when Interval is zero.

Ftp Service Settings	
FTP Server	sohonas.com.tw
FTP Port	21
FTP User	Clairvoyant
FTP Password	••••••
FTP Upload Folder	/clairvoyant
FTP Mode	PORT
Upload Image Now	☑
Upload Interval (Seconds)	0
Submit Refresh	

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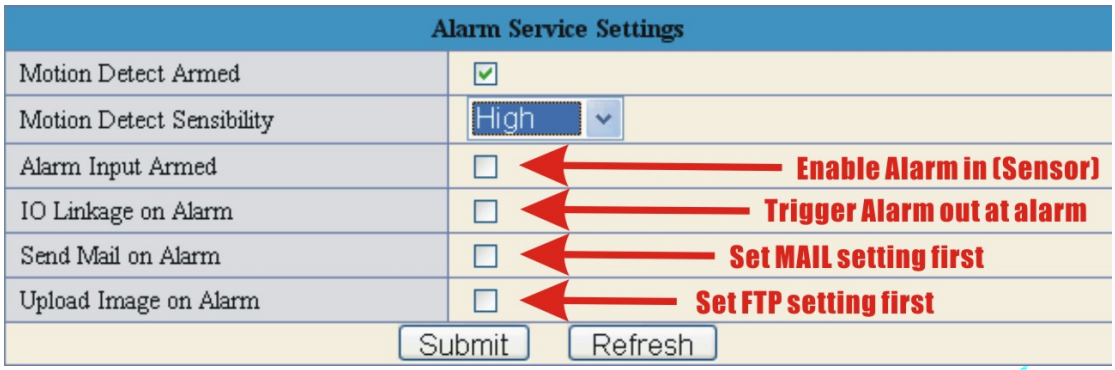
2.3.13 Alarm Service Settings



Note:

Don't upload when Interval is zero.

IO Linkage will trigger alarm output.

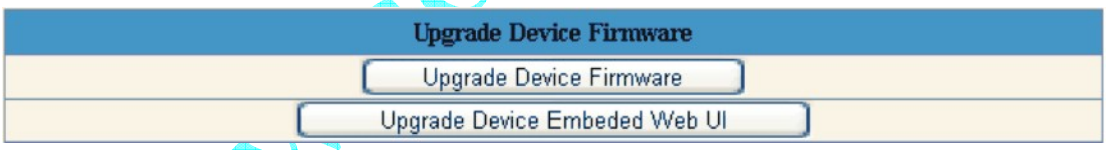
Motion DetectArmed: Motion object will trigger alarm, emails and FTP upload to server will start to send snapshots for one minute

Alarm Input Armed: When the alarm in pins from "NO" to "close" will trigger alarm.

Send Mail on Alarm : Sent alarm email to assigned email box which includes snapshot picture

Upload Image on Alarm : Upload snapshot pictures to pre-assigned FTP server folder.

2.3.14 Upgrade Device Firmware



WARNING:

ONLY FOR CERTIFIED TECHNICAL ENGINEERS

Get correct firmware from authorized dealer, wrong version of firmware will damage your camera permanently.

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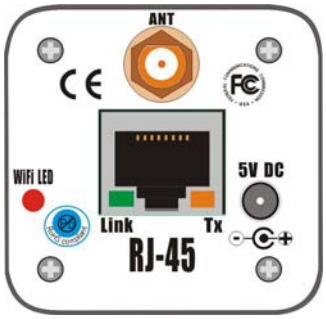
Appendix

A. C1002 Rear Panel



LAN: RJ-45/10-100 Base T

ANT: For Wi-Fi wireless (optional)
DC5V: 5V/1A Power supply (indoor, Wi-Fi)

B. C1002IR Tail Wire

RESET: Restore factory default in case of forgetting password.
ALARM IN: Connect to Sensor/ Detector, Normal Open, will trigger alarm when Short circuit (closed)
DC5V: 5V/1A Power supply (outdoor, IR, Wi-Fi)

B. Technical Data

Image System

- Compression: Motion JPEG hardware compression
- 350,000 pixels CMOS sensor
- f: 6.0mm to infinity, C/CS mount lens
- Min. 2.0 to 3.0 Lux (Indoor version)
- Min. 0 Lux with IR Leds (Outdoor version)
- Automatic Exposure Control
- Automatic Gain Control
- Automatic Brightness Control
- Automatic White Balance
- Flicker Avoidance (Flicker less)
- Resolution:

QVGA (320 x 240)
VGA (640 x 480)

- Image Frame Rate:

Max. 25 fps at QVGA resolution, average 4 Mbps/sec
Max. 15 fps at VGA resolution, average 4 Mbps/sec

- I/O Interface

CAT5, RJ-45 x1 (802.3)
RS-485 for PTZ control (OEM indoor version)
Network Protocols

- TCP/IP, HTTP, ARP, ICMP, PPPoE, DHCP, SMTP, DDNS

Client

- IE6

Mechanical & Environment

- Dimensions (mm, L x H x W):

106 x 46 x 46 (OEM indoor version)
158 x 80 x 75 (Outdoor version)

- Weight (g): 350 / 650 (Indoor/ Outdoor)
- Power Requirement: 5 V / 0.3A (Indoor version) / 5 V / 1A (Outdoor version)
- Operation Temp: 5 ºC to 50 ºC (40 ºF to 122 ºF)
- Humidity: Rh10 % to 90 %

Remark:

- Optional Digital FTP alarm, scheduling, NFS storage functions
- Optional Alarm inputs and outputs, Power over Ethernet, Wi-Fi wireless
- Optional DVR client software for 16 cameras monitoring.
- OEM PTZ or Fixed Dome camera available.

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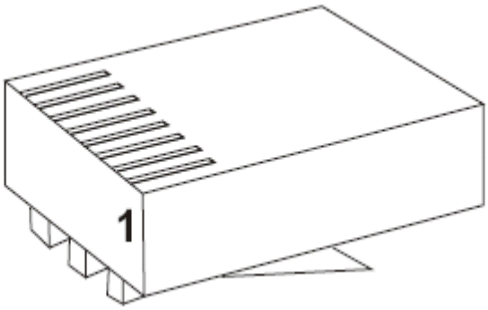
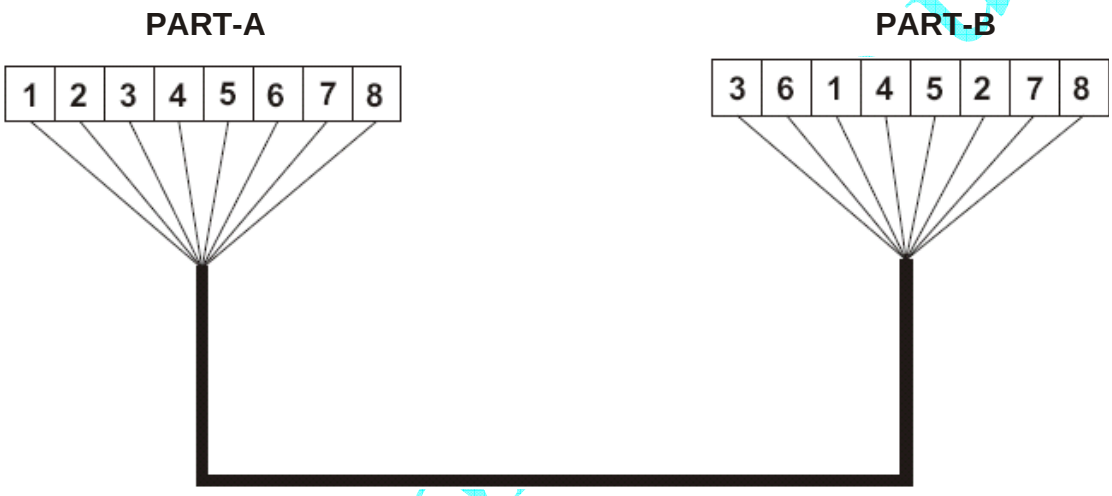
C. Cross Ethernet Cable Making Tip

I. LAN Plug

Pin: 1 ~ 8



II. LAN Cable

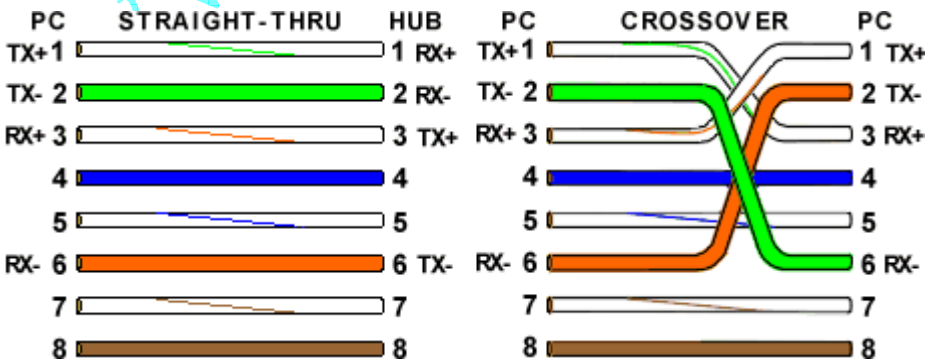


III. Connection Method

a. Connect LAN Cable Part-A and LAN plug by order as one to one .

b. Connect to LAN cable Part-B & Part-A, Replace order No.1 & 3, No.2 & 6.

c. Connect LAN cable Part-B No. 3 to LAN plug No. 1 and connect the next by order.



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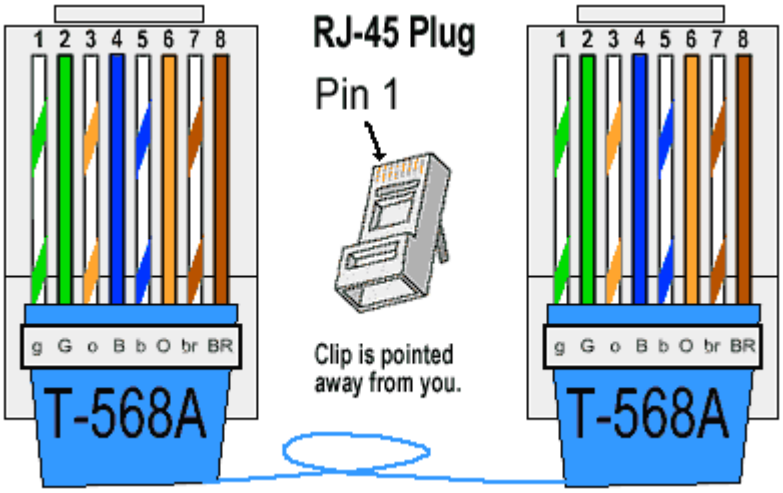
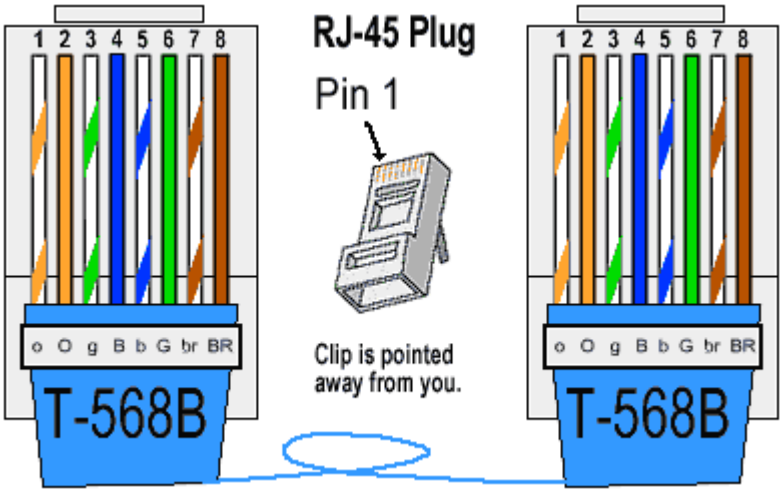
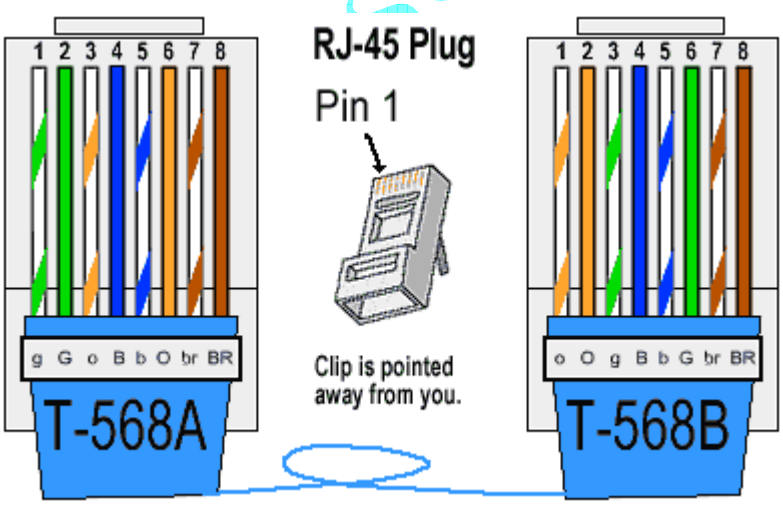

1 2 3 4 5 6 7 8
g G o B b O br BR
T-568A
RJ-45 Plug
Pin 1
Clip is pointed
away from you.
1 2 3 4 5 6 7 8
g G o B b O br BR
T-568A


1 2 3 4 5 6 7 8
o O g B b G br BR
T-568B
RJ-45 Plug
Pin 1
Clip is pointed
away from you.
1 2 3 4 5 6 7 8
o O g B b G br BR
T-568B


1 2 3 4 5 6 7 8
g G o B b O br BR
T-568A
RJ-45 Plug
Pin 1
Clip is pointed
away from you.
1 2 3 4 5 6 7 8
o O g B b G br BR
T-568B

========== The End ==========